

VI. CONCLUSION

The presented system is based on direct converters so it does not require the dc link as in conventional DVRs. The absence of the dc link causes an enormous decrease in cost, weight, and volume and also avoids the maintenance of energy storage devices. Each phase direct converter is constructed using only two bidirectional switches. Control is very simple as no PWM technique is necessary for its control. The presented system is able to mitigate 100% of single phase voltage sag and voltage swell with 0% THD.

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